## What is claimed is:

1. A compound having the structure

$$Y-M-X-L$$
 $O$ 
 $R_3$ 
 $NR_1$ 

where L is CO or CH<sub>2</sub>, X is NH or O, M is a saturated or unsaturated, aliphatic or aromatic, substituted or unsubstituted, straight or branched chain of 0-10 carbon or hetero atoms, Y is an activated functionality selected from the group consisting of active esters, isocyanates, isothiocyanates, thiols, imidoesters, anhydrides, maleimides, thiolactones, diazonium groups, and aldehydes, and R<sub>1</sub> is H, CH<sub>3</sub>, C<sub>2</sub>H<sub>5</sub>, or C<sub>3</sub>H<sub>7</sub>, R<sub>2</sub> is CH<sub>3</sub> or C<sub>2</sub>H<sub>5</sub>, and R<sub>3</sub> is a protecting group or H.

- 2. The compound of claim 1 wherein X is NH, Y is an activated ester, R<sub>1</sub> is CH<sub>3</sub>, R<sub>2</sub> is CH<sub>3</sub>, and R<sub>3</sub> is a protecting group. [MDMA activated hapten]
- 3. The compound of claim 1 wherein X is NH, Y is an activated ester,  $R_1$  is  $C_2H_5$ ,  $R_2$  is  $CH_3$ , and  $R_3$  is a protecting group. [MDEA activated hapten]
- 4. The compound of claim 1 wherein X is NH, Y is an activated ester, R<sub>1</sub> is H, R<sub>2</sub> is CH<sub>3</sub>, and R<sub>3</sub> is a protecting group. [MDA activated hapten]
- 5. A compound having the structure

$$Z-M-X-L$$

NHR<sub>1</sub>

where L is CO or CH<sub>2</sub>, X is NH or O, M is a saturated or unsaturated, aliphatic or aromatic, substituted or unsubstituted, straight or branched chain of 0-10 carbon or hetero atoms, Z is a carrier molecule,  $R_1$  is H, CH<sub>3</sub>,  $C_2H_5$ , or  $C_3H_7$ , and  $R_2$  is CH<sub>3</sub> or  $C_2H_5$ .

6.	The compound of claim 5 wherein X is NH, Z is selected from the group consisting
	of KLH, BSA, and aminodextran, R <sub>1</sub> is H, CH <sub>3</sub> , or C <sub>2</sub> H <sub>5</sub> , and R <sub>2</sub> is CH <sub>3</sub> or C <sub>2</sub> H <sub>5</sub> .
7.	Cell line MDMA 8.3, ATCC designation, producing a monoclonal antibody
	having greater than 100% cross-reactivity to MDEA.
8.	A monoclonal antibody produced from cell line MDMA 8.3, ATCC designation
	, the antibody having greater than 100% cross-reactivity to MDEA.
9.	A monoclonal antibody having greater than 100% cross-reactivity to MDEA and
	binding in a manner equivalent to that of an antibody from cell line MDMA 8.3,
	ATCC designation
10.	Cell line MDMA 6.1, ATCC designation, producing a monoclonal antibody
	having greater than 90% cross-reactivity to MBDB and d-MAMP.
11,.	A monoclonal antibody produced from cell line MDMA 6.1, ATCC designation
	, the antibody having greater than 90% cross-reactivity to MBDB and d-
	MAMP.
12.	A monoclonal antibody having greater than 90% cross-reactivity to MBDB and d-
	MAMP and binding in a manner equivalent to that of an antibody from cell line
	MDMA 6.1, ATCC designation
13.	Cell line MDEA 2.2, ATCC designation, producing a monoclonal antibody
	having greater than 100% cross-reactivity to MDMA and MDBD.
14.	A monoclonal antibody produced from cell line MDEA 2.2, ATCC designation
	, the antibody having greater than 100% cross-reactivity to MDMA and
	MBDB.
15.	A monoclonal antibody having greater than 100% cross-reactivity to MDMA and
	MDBD and binding in a manner equivalent to that of an antibody from cell line
	MDEA 2.2. ATCC designation .

16. An antibody generated in response to a compound having the structure

$$Z-M-X-L$$

O

NHR<sub>1</sub>

where L is CO or CH<sub>2</sub>, X is NH or O, M is a saturated or unsaturated, aliphatic or aromatic, substituted or unsubstituted, straight or branched chain of 0-10 carbon or hetero atoms, Z is a carrier molecule selected from the group consisting of proteins, polypeptides, and polysaccharides, R<sub>1</sub> is H, CH<sub>3</sub>, C<sub>2</sub>H<sub>5</sub>, or C<sub>3</sub>H<sub>7</sub>, and R<sub>2</sub> is CH<sub>3</sub> or C<sub>2</sub>H<sub>5</sub>.

17. The antibody of claim 16 wherein L is CH<sub>2</sub>, X is NH, M is OC(CH<sub>2</sub>)<sub>2</sub>CO, Z is KLH, R<sub>1</sub> is CH<sub>3</sub> or C<sub>2</sub>H<sub>5</sub>, and R<sub>2</sub> is CH<sub>3</sub>. [This covers immunogens **1P** (R<sub>1</sub>=CH<sub>3</sub>) and **2U** (R<sub>1</sub>=C<sub>2</sub>H<sub>5</sub>), which gave rise to the claimed mabs.]